

**GENERIC NAME:**

**ALBUTEROL SULFATE**

112.03

**BRAND NAME:** Proventil, Ventolin

**CLASS:** sympathomimetic, bronchodilator

Mechanism of Action:

$\beta$  agonist (primarily  $\beta_2$ ); relaxes bronchial smooth muscle, resulting in bronchodilation; also relaxes vascular and uterine smooth muscle; decreases airway resistance

Indications and Field Use:

Treatment of bronchospasm

Contraindications:

Synergistic with other sympathomimetics

Use caution in patients with diabetes, hyperthyroidism, and cerebrovascular disease

Adverse Reactions:

CV: Dysrhythmias, tachycardia (with excessive use), peripheral vasodilation

Resp: Bronchospasm (rare paradoxical with excessive use)

CNS: Tremors, nervousness

GI: Nausea, vomiting

Endocrine: Hyperglycemia

**NOTES ON ADMINISTRATION**

Incompatibilities/Drug Interactions:

Tricyclic antidepressants (TCA's) and monoamine oxidase (MAO) inhibitors

Other sympathomimetics (relative)

Adult Dosage:

Give 2.5 mg of premixed solution for inhalation (0.083%) via SVN with a mouth piece, or in-line with a ventilatory device. Repeated according to medical control preference

Pediatric Dosage: (children <40 lbs)

For children < 40 lbs., administer half of 0.083% premixed solution; add 1-1.5 ml NS to make 2.5-3 cc inhalation treatment administered via SVN with a mouth piece, O<sub>2</sub> mask or in-line with a ventilatory device. May be repeated according to medical control preference

Routes of Administration:

Nebulized, mouth piece or in-line via mask  
Inhaler, patients own  
ET/NT in-line

Onset of Action:

5-15 minutes

Peak Effects:

30 minutes - 2 hours

Duration of Action:

3-4 hours

Dosage Forms/Packaging:

2.5 mg albuterol premixed in 3 ml normal saline (independent dose) sulfite-free

Arizona Drug Box Supply Range:

PARAMEDIC: 2 - 6 independent doses  
INTERMEDIATE: 2 - 6 independent doses

Special Notes:

> Must be sulfite-free